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1 Mechanism design with incomplete languages

Amir Ronen
October 2001 **EC '01:** Proceedings of the 3rd ACM conference on Electronic Commerce
Publisher: ACM Request Permissions
Full text available: Pdf (202.53 KB)   Additional Information: full citation, abstract, references, in

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 6, Downloads (Overall): 14·

A major achievement of mechanism design theory is the family of truthful mechanisn (named after Vickrey, Clarke and Groves). Although these mechanisms have many a essential intractability prevents them from ...

2 An abstract intermediate representation in compilation systems

Dai Guilan, Tian Jinlan, Zhang Suqing, Jiang Weidu
February 2003 **SIGPLAN Notices** , Volume 38 Issue 2
Publisher: ACM
Full text available: Pdf (504.82 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 17, Downloads (Overall): 2‹

The design of an intermediate representation is critical to the portability of a compiler generation. In order to increase the reusability of compiler components, and to simpl process of compilers, the paper ...

Keywords: algebraic datatypes, compiler infrastructures, intermediate representatio

3 Fully reflexive intensional type analysis

Valery Trifonov, Bratin Saha, Zhong Shao
September 2000 **ICFP '00:** Proceedings of the fifth ACM SIGPLAN international conferenc
programming
Publisher: ACM Request Permissions
Full text available: Pdf (722.26 KB)   Additional Information: full citation, abstract, references, c‹

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 15, Downloads (Overall): 1€

Compilers for polymorphic languages can use runtime type inspection to support adv techniques such as tagless garbage collection, polymorphic marshalling, and flattene‹ Intensional type analysis is a type-theoretic ...

Keywords: certified code, runtime type dispatch, typed intermediate language

Also published in:
September 2000 **SIGPLAN Notices** Volume 35 Issue 9

4 Optimizing object queries using an effective calculus

Leonidas Fegaras, David Maier

December 2000 **Transactions on Database Systems (TODS)** , Volume 25 Issue 4

Publisher: ACM Request Permissions

Full text available: Pdf (641.65 KB)   Additional Information: full citation, abstract, references, ci

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 66,   Downloads (Overall): §

Object-oriented databases (OODBs) provide powerful data abstractions and modeling
generally lack a suitable framework for query processing and optimization. The devel
query optimizer is one of the key factors ...

Keywords: nested relations, object-oriented databases, query decorrelation, query (

5 Transforming the .NET intermediate language using path logic programming

Stephen Drape, Oege de Moor, Ganesh Sittampalam

October 2002 **PPDP '02:** Proceedings of the 4th ACM SIGPLAN international conference (
of declarative programming

Publisher: ACM Request Permissions

Full text available: Pdf (251.91 KB)   Additional Information: full citation, abstract, references, ci

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 25,   Downloads (Overall): 2§

Path logic programming is a modest extension of Prolog for the specification of progr.
give an informal introduction to this extension, and we show how it can be used in cc
optimisations, and also a number of ...

Keywords: compiler optimisations, logic programming, meta programming, obfusca·
program transformation

6 Functioning without closure: type-safe customized function representations for st

Allyn Dimock, Ian Westmacott, Robert Muller, Franklyn Turbak, J. B. Wells

October 2001 **ICFP '01:** Proceedings of the sixth ACM SIGPLAN international conference
programming

Publisher: ACM Request Permissions

Full text available: Pdf (257.35 KB)   Additional Information: full citation, abstract, references, ci

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 25,   Downloads (Overall): 1§

The CIL compiler for core Standard ML compiles whole ML programs using a novel ty|
that supports the generation of type-safe customized data representations. In this pa
data comparing the relative efficacy ...

Also published in:
October 2001 **SIGPLAN Notices** Volume 36 Issue 10

7 Guest editorial

Kathleen Fisher, Benjamin C. Pierce

March 2002 **Transactions on Programming Languages and Systems (TOPLAS)** , v

Publisher: ACM Request Permissions

Full text available: Pdf (27.26 KB)   Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 23,   Downloads (Overall): 1§

The Eighth International Workshop on Foundations of Object-Oriented Languages (F(
20, 2001, colocated with the ACM Symposium on Principles of Programming Languag
Fisher chaired the program committee. Six ...

8 Early evaluation of software performance based on the UML performance profile
Gordon Ping Gu, Dorina C. Petriu
October 2003 **CASCON '03:** Proceedings of the 2003 conference of the Centre for Advan
Collaborative research
Publisher: IBM Press
Full text available: Pdf (498.98 KB)   Additional Information: full citation, abstract, references, c

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 52,   Downloads (Overall): 1‍‍

The "UML Profile for Schedulability, Performance and Time" recently adopted by OMG
extensions via the Unified Modeling Language (UML) stereotypes, tagged values and
conduct quantitative performance analysis ...

9 Expressive retrieval from XML documents
Taurai Tapiwa Chinenyanga, Nicholas Kushmerick
September 2001 **SIGIR '01:** Proceedings of the 24th annual international ACM SIGIR con
development in information retrieval
Publisher: ACM Request Permissions
Full text available: Pdf (400.63 KB)   Additional Information: full citation, abstract, references, c

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 25,   Downloads (Overall): 5‍‍

The emergence of XML as a standard interchange format for structured documents/d
XML query language proposals. However, some of these languages do not support int
ranked queries based on textual similarity. ...

10 Taming the IXP network processor
Lal George, Matthias Blume
June 2003   **PLDI '03:** Proceedings of the ACM SIGPLAN 2003 conference on Programm
implementation
Publisher: ACM Request Permissions
Full text available: Pdf (159.27 KB)   Additional Information: full citation, abstract, references, c

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 45,   Downloads (Overall): 7‍‍

We compile Nova, a new language designed for writing network processing applicatio
on integer-linear programming (ILP) for register allocation, optimal bank assignment
optimizer employs CPS as its ...

Keywords: Intel IXA, bank assignment, code generation, integer linear programmin‍
programming languages, register allocation

Also published in:
May 2003 **SIGPLAN Notices** Volume 38 Issue 5

11 Logic optimization and code generation for embedded control applications
Yunjian Jiang, Robert K. Brayton
April 2001   **CODES '01:** Proceedings of the ninth international symposium on Hardware
Publisher: ACM
Full text available: Pdf (406.66 KB)   Additional Information: full citation, abstract, references, c

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 22,   Downloads (Overall): 1‍‍

We address software optimization for embedded control systems. The Esterel langua‍
specification; Esterel compiler v6 is used to partition the control circuit and data path
intermediate representation of the design ...

Keywords: Esterel, MDD, code generation, logic optimization, multiple-valued

12 Deciding type equivalence in a language with singleton kinds

Christopher A. Stone, Robert Harper

January 2000 **POPL '00:** Proceedings of the 27th ACM SIGPLAN-SIGACT symposium on l
languages

Publisher: ACM Request Permissions

Full text available: Pdf (1.40 MB)   Additional Information: full citation, abstract, references, ci

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 27, Downloads (Overall): 2⁄

Work on the TILT compiler for Standard ML led us to study a language with singleton
all types provably equivalent to the type A. Singletons are interesting ...

13 A definitional approach to primitivexs recursion over higher order abstract syntax

S. J. Ambler, R. L. Crole, Alberto Momigliano

August 2003 **MERLIN '03:** Proceedings of the 2003 ACM SIGPLAN workshop on Mechani
languages with variable binding

Publisher: ACM Request Permissions

Full text available: Pdf (276.19 KB)   Additional Information: full citation, abstract, references, ci

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 17, Downloads (Overall): 7⁣

It is well known that there are problems associated with formal systems which attem
abstract syntax (HOAS) with principles of induction and recursion. We describe a forr
which we have implemented in ...

Keywords: λ-calculus, Isabelle HOL, higher order abstract syntax, initial algebras, p
theory

14 Some issues on the translator of smalltalk to C++

Wang Shaofeng, Yang Fuquing, Sun Jiaguang

April 2001   **SIGPLAN Notices** , Volume 36 Issue 4

Publisher: ACM

Full text available: Pdf (622.96 KB)   Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 17, Downloads (Overall): 2⁄

This paper mainly discusses s2cpp that is a translator of Smalltalk to C++. Generally
programming languages can be classified into two types. The first type is the translat
programming languages. The second ...

15 Proceedings of the workshop on Comparing corpora - Volume 9

Adam Kilgarriff, Tony Berber Sardinha

October 2000 Proceedings of the workshop on Comparing corpora - Volume 9

Publisher: Association for Computational Linguistics

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall):

Anyone who has worked with corpora will be all too aware of differences between the
differences, it may, or may not, be reasonable to expect results based on one corpus
another. It may, or may not, be appropriate ...

16 A type system for certified binaries

Zhong Shao, Bratin Saha, Valery Trifonov, Nikolaos Papaspyrou

January 2002 **POPL '02:** Proceedings of the 29th ACM SIGPLAN-SIGACT symposium on l
languages

Publisher: ACM Request Permissions

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 25,   Downloads (Overall): 2!

A *certified binary* is a value together with a proof that the value satisfies a given spec
compilers that generate certified code have focused on simple memory and control-fl
advanced properties. In ...

Also published in:
    January 2002 **SIGPLAN Notices** Volume 37 Issue 1

17 Design and implementation of generics for the .NET Common language runtime
Andrew Kennedy, Don Syme
June 2001   **PLDI '01**: Proceedings of the ACM SIGPLAN 2001 conference on Programm
            implementation
Publisher: ACM Request Permissions

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 65,   Downloads (Overall): 1:

The Microsoft.NET Common Language Runtime provides a shared type system, interr
dynamic execution environment for the implementation and inter-operation of multip
this paper we extend it with direct support for ...

Also published in:
    May 2001 **SIGPLAN Notices** Volume 36 Issue 5

18 Techniques for obtaining high performance in Java programs
Iffat H. Kazi, Howard H. Chen, Berdenia Stanley, David J. Lilja
September 2000 **Computing Surveys (CSUR)** , Volume 32 Issue 3
Publisher: ACM Request Permissions

Bibliometrics: Downloads (6 Weeks): 62,   Downloads (12 Months): 459,   Downloads (Overall):

This survey describes research directions in techniques to improve the performance c
Java programming language. The standard technique for Java execution is interpreta
extensive portability of programs. ...

Keywords: Java, Java virtual machine, bytecode-to-source translators, direct compi
interpreters, just-in-time compilers

19 CodeBricks: code fragments as building blocks
Giuseppe Attardi, Antonio Cisternino, Andrew Kennedy
June 2003   **PEPM '03**: Proceedings of the 2003 ACM SIGPLAN workshop on Partial eva
            based program manipulation
Publisher: ACM Request Permissions

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 32,   Downloads (Overall): 4:

We present a framework for code generation that allows programs to manipulate and
source level while the joining and splicing of executable code is carried out automatic
code/VM level. The framework introduces ...

Keywords: domain specific language, generative programming, metaprogramming,
program generation, program transformation, reflection

Also published in:
    October 2003 **SIGPLAN Notices** Volume 38 Issue 10

20 Typing a multi-language intermediate code

Andrew D. Gordon, Don Syme

January 2001 **POPL '01:** Proceedings of the 28th ACM SIGPLAN-SIGACT symposium on l
                languages

Publisher: ACM Request Permissions

Full text available: Pdf (257.05 KB)   Additional Information: full citation, abstract, references, ci

Bibliometrics: Downloads (6 Weeks): 12,   Downloads (12 Months): 61,   Downloads (Overall): 6

The Microsoft .NET Framework is a new computing architecture designed to support a
applications and web-based services. .NET software components are typically distribu
intermediate language, Microsoft IL, ...

Also published in:
    March 2001 **SIGPLAN Notices** Volume 36 Issue 3

Resul